

What is claimed is:

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1. A roller processing/rolling an electrode structure in which a powdered electrode active substance is adhered to the current collecting member, comprising a pair of work rolls sandwiching and rolling the electrode structure, at least a pair of backup rolls generating a pressing force onto the respective work roll, a pressuring device pressing at least one of said backup roll toward the work roll side, and a drive unit rotating said work rolls.

10 2. The roller processing/rolling an electrode structure as is claimed in Claim 1, wherein

the diameter of said backup roll is larger than the diameter of said work roll.

3. The roller processing/rolling an electrode structure as is claimed in Claim 1, wherein

15 said backup roll has an elastic material coated on its surface.

4. The roller processing/rolling an electrode structure as is claimed in Claim 1, which further comprises

a work roll housing having an axle receive of said work roll inside and

a housing having an axle receive of the respective roll inside, wherein

20 a spacer is positioned between the respective housings.

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5. A roller processing/rolling an electrode structure in which a powdered electrode active substance is adhered to the current collecting member, comprising a large diameter work roll and a small diameter other work roll having an electrode structure inbetween,

25 a backup roll generating a pressing force onto the surface of the small diameter

work roll, and

a pressure device pressing the backup roll toward the small diameter work roll side, and a drive unit rotating the work roll.

6. The roller processing/rolling an electrode structure as is claimed in Claim 5,  
5 wherein

the diameter of said backup roll is larger than the diameter of said work roll.

7. The roller processing/rolling an electrode structure as is claimed in Claim 5,  
wherein

said backup roll has an elastic material coated on its surface.

10 8. The roller processing/rolling an electrode structure as is claimed in Claim 5,  
which further comprises

a work roll housing having an axle receive of said work roll inside and  
a housing having an axle receive of the respective roll inside, wherein  
a spacer is positioned between the respective housings.

15 9. An electrode structure for a secondary cell in which ions move between the  
electrodes, wherein

a powdered electrode active substance coated by an ion-conducting polymer is  
adhered to a current collecting member, and a roller processes/rolls said powdered  
electrode conductive substance on the current collecting member.

20 10. The electrode structure as is claimed in Claim 9, wherein  
said powdered electrode conductive substance is mixed with said powdered  
electrode active substance.

25 11. An electrode structure of an electric double layer capacitor in which ions  
move between electrodes, wherein

a powdered large surface material coated with an ion-conducting polymer is adhered to a current collecting material, and

    said powdered large surface material is rolled on said current collecting member by a roller.

5     12. The electrode structure as is claimed in Claim 11, wherein

        said powdered large surface material is mixed with said powdered electrode conductive substance.